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SOURCE Chemische Industrie.GIVES RECENT DEVELOPMENTS IN GDR CHEMICAL INDUSTRY

TO INCREASE CHEMICAL OUTPUT -- Duesseldorf, Chemische Industrie, Jan 51

Under the Five-Year Plan of the German Democratic Republic, the Leuna Chemical Works is to produce 90 percent of East Germany's total nitrogen output. Inasmuch as the GDR is scheduled to produce 235,000 tons of nitrogen fertilizer in 1955, the Leuna plant's share of this total has been fixed at 211,500 tons. The plant has also been ordered to double its output of benzine and lactam for nylon fiber in the course of the Five-Year Plan period.

The chemical production of the GDR, which was valued at 3.5 billion East marks in 1950, is to be upped to 6.6 billion East marks by 1955, an increase of approximately 86 percent.

The following production increases over 1950 are to be achieved:

	<u>Increase</u> (%)	<u>Scheduled 1955 Output</u> (tons)
Sulfuric acid (SO ₃)	56	400,000
Caustic soda (NaOH)	70	250,000
Calcined soda (Na ₂ CO ₃)	272	380,000
Nitrogen fertilizer (N)	13	235,000
Phosphorous fertilizer (P ₂ O ₄)	91	93,000
Soap (40%)	177	100,000
Synthetic rubber	59	60,000
Benzine	75	780,000

It is also planned to improve the synthesis process for fatty acids and to increase the yield, to expand the production of antibiotics, to develop new medications, carbon products, and detergents, and to continue research on processes based on high-pressure and medium-pressure synthesis.

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TO PRODUCE CALCINED PHOSPHATE ON LARGE SCALE -- Duesseldorf, Chemische Industrie, Jul 51

Experiments have been carried out recently in connection with the production of calcined phosphate (Gluehphosphate), based on heating Kola phosphate, lime, and clay, in electric furnaces.

According to a press report, the Ruedersdorf Gluehphosphat Werk has been producing, on an industrial scale, a phosphorus fertilizer which is also derived from Soviet Kola apatites which are hydrolized with residuary salt of the potash industry. Apparently, this is a further development of the method, known for many years, in which rock phosphate concentrate, potassium sulfate, and sand are calcined in a rotary furnace.

The large-scale production of calcined phosphate is of great importance to the German Democratic Republic, since not enough sulfuric acid is available for the production of superphosphates. The production of calcined phosphate is not dependent on sulfuric acid. The fertilizer manufactured in Ruedersdorf is a crystalline, citrate-soluble product. It is said to spread well and to have exceptional storage stability.

DEVELOP NEW INSECTICIDES -- Duesseldorf, Chemische Industrie, May 51

The people-owned Cirine Works in Oberlichtenau, Kreis Chemnitz, is engaged in research for the improvement and perfection of the Emotex insecticides which were introduced in 1950. The preparations are applied with a brush and are said to assure lasting protection against injurious insects in the house.

An organic phosphoric acid derivative, similar in type to the Bayer preparation E 605, is being produced industrially by the Wolfen Chemical Plant and is sold under the trade name Wofatox. It is especially effective against aphids.

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